

RFID-107US

Application No.: 10/602,854
Reply to Office Action of November 2, 2004

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) A first RFID reader for use in a security network in a building having a sensor, an RFID transponder coupled to the sensor for wirelessly transmitting a signal indicating a status of the sensor, the first RFID reader comprising, containing:
 - a first antenna for wirelessly communicating with the RFID transponder; and a processor;
 - memory for storing program code and configuration data;
 - a control function contained within the program code, and
 - at least a first antenna for use in wireless communications
 - a processor coupled to the antenna and configured to receive the wireless signal, to decode the sensor status from the wireless signal, and to communicate the sensor status to a first control function.
2. (Currently Amended) The first RFID reader of claim 1, wherein the security network can be used-is configured for use in a building having an with at least one opening and the sensor monitors the opening to detect intrusions to be monitored for intrusion.
3. (Currently Amended) The first RFID reader of claim 1, wherein the security network can be used-is configured for use in a building to be and the sensor monitors the building monitored for smoke or fire.
4. (Canceled).
5. (Currently Amended) The first RFID reader of claim 1, wherein the security network else contains-includes a second RFID reader, and wherein the said first RFID reader can receives wireless communications from the said-second RFID reader.
6. (Currently Amended) The first RFID reader of claim 1, wherein the security network else contains-includes at least a first RFID transponder and a second RFID reader, and wherein the said first RFID reader can receive-a transmits wireless communications received from the said-first RFID transponder to the said-second RFID reader.
7. (Currently Amended) The first RFID reader of claim 1 further comprising, wherein the said first RFID reader further contains-a second antenna for use in wireless communications.

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8. (Currently Amended) The first RFID reader of claim 7, wherein the said first RFID reader uses only one of the said first antenna or and the said second antenna is used in each wireless communications.
9. (Currently Amended) The first RFID reader of claim 8, further comprising wherein the configuration data including contains parameters that predetermine which of the said first antenna or the said second antenna to use in each wireless communication communications.
10. (Currently Amended) The first RFID reader of claim 1, further comprising, wherein the said first RFID reader ~~further contains~~ a battery backup.
11. (Currently Amended) The first RFID reader of claim 1, wherein the processor is configured to support said first RFID reader supports more than one modulation technique.
12. (Currently Amended) The first RFID reader of claim 11, wherein at least one modulation technique is continuous wave.
13. (Currently Amended) The first RFID reader of claim 11, wherein at least one modulation technique is Gaussian Frequency Shift Keying.
14. (Currently Amended) The first RFID reader of claim 1, wherein the said first RFID reader supports multiple transmit power levels.
15. (Currently Amended) The first RFID reader of claim 1, configured to wherein the said first RFID reader can vary its rate of transmitting RF energy.
16. (Currently Amended) The first RFID reader of claim 1, ~~wherein the said first RFID reader further contains~~ further comprising algorithms for using microwave Doppler analysis to detect motion.
17. (Currently Amended) The first RFID reader of claim 16, ~~wherein the~~ configured to apply said first RFID reader applies the said algorithms for using microwave Doppler analysis to detect motion in ~~to~~ the response to wireless communications received from a ~~the~~ first the RFID transponder.
18. (Currently Amended) The first RFID reader of claim 1, further comprising, wherein the said first RFID reader ~~further contains~~ an acoustic transducer.

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19. (Currently Amended) The first RFID reader of claim 18 further comprising, wherein the said first RFID reader further contains algorithms to process audio waves received by the acoustic transducer, and wherein the algorithms are designed to detect glass breakage.
20. (Currently Amended) The first RFID reader of claim 18 further comprising, wherein the said first RFID reader further contains algorithms to process audio waves received by the acoustic transducer, and wherein the algorithms are designed to perform voice recognition.
21. (Currently Amended) The first RFID reader of claim 20, wherein the processor is configured to perform the control function contained within the said first RFID reader accepts in response to commands received via voice recognition.
22. (Currently Amended) The first RFID reader of claim 18 further comprising, wherein the said first RFID reader further contains algorithms to digitize the audio waves received by the acoustic transducer, and retransmit the digitized audio waves via wireless communications.
23. (Currently Amended) The first RFID reader of claim 1 further comprising, wherein the said first RFID reader further contains a sensor that can monitors an environmental parameter in at least one portion of the building.
24. (Currently Amended) The first RFID reader of claim 23, wherein the said environmental parameter is the presence of smoke.
25. (Currently Amended) The first RFID reader of claim 23, wherein the said environmental parameter is temperature.
26. (Currently Amended) The first RFID reader of claim 23, wherein the said environmental parameter is the presence of water.
27. (Currently Amended) The first RFID reader of claim 1 further comprising, wherein the said first RFID reader further contains a camera.
28. (Currently Amended) The first RFID reader of claim 27 further comprising, wherein the said first RFID reader further contains algorithms to digitize pictures recorded by the camera, and transmit the digitized pictures via wireless communications.
29. (Currently Amended) The first RFID reader of claim 1, wherein at least one operation of the said first RFID reader is under the control of a master controller contained within the security network.

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30. (Currently Amended) The first RFID reader of claim 29, wherein the said-master controller is contained within a device in the security network other than the said-first RFID reader.
31. (Currently Amended) The first RFID reader of claim 29 further comprising, wherein the said-master controller is contained with the said first RFID reader.
32. (Currently Amended) The first RFID reader of claim 31, wherein the said-master controller can send a command controlling at least one operation of another device contained within the security network.
33. (Currently Amended) The first RFID reader of claim 1, wherein the further comprising configuration data contained with the said first RFID reader can be that is changed under the control of a master controller or control function contained within the security network.
34. (Currently Amended) The first RFID reader of claim 1, wherein the further comprising a memory which stores program code executed by the processor wherein the program code contained with the said first RFID reader can be updated is updatable under the control of a master controller or control function contained within the security network.
35. (Currently Amended) The first RFID reader of claim 1, wherein the said first RFID reader further contains further comprising physical packaging wherein the an RFID transponder is positioned within the physical packaging of the said first RFID reader.
36. (Currently Amended) The first RFID reader of claim 1 further comprising, wherein the said first RFID reader further contains an interface to another prior art security system.
37. (Currently Amended) The first RFID reader of claim 36, wherein the said first RFID reader configured to can receive power via the interface to the other security system to the said prior art security system.
38. (Currently Amended) The first RFID reader of claim 36 configured, wherein the said first RFID reader can to receive commands via the interface to the other said prior art security system.
39. (Currently Amended) The first RFID reader of claim 1, wherein the said first RFID reader is mechanically mounted to a plate, and wherein the plate is configured to can be mechanically mounted to an outlet.

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40. (Currently Amended) The first RFID reader of claim 1, wherein the said first RFID reader is integrated with an outlet, and the physical packaging of the integrated RFID reader and outlet can and configured to be installed within a standard outlet box approved for use within buildings.
41. (Currently Amended) The first RFID reader of claim 1, wherein the said first RFID reader is integrated with a light switch, and the physical packaging of the integrated RFID reader and light switch can and configured to be installed within a standard outlet box approved for use within buildings.
42. (New) The first RFID reader of claim 1 wherein the control function is performed by the first RFID reader.